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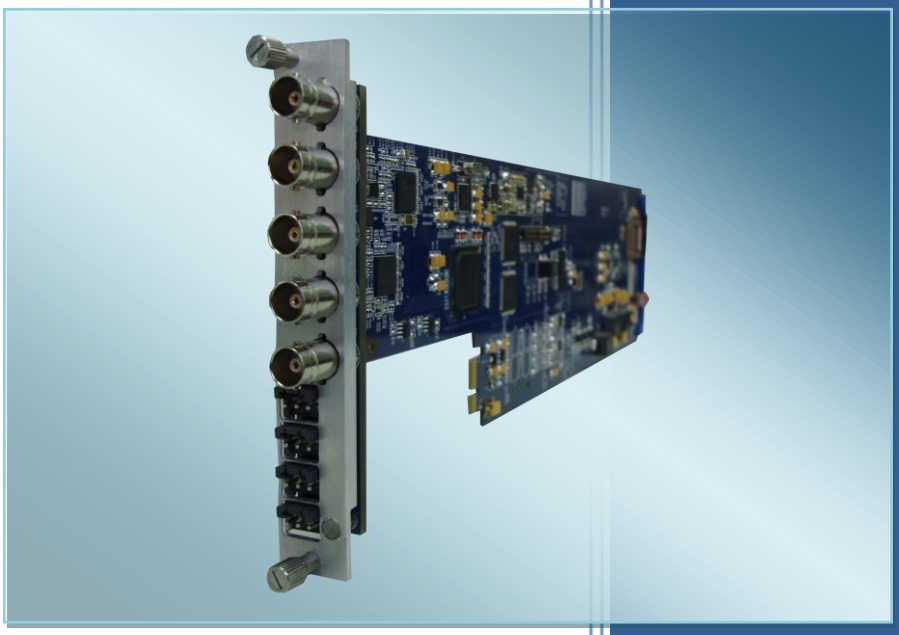
XIO 9030HDDEM-4AUD

De-embed module of HD video signal to analog audio signal

User Manual V1.0



www.gefei-tech.com

November，2010

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XIO 9030HDDEM-4AUD

De-embed module of HD video signal to analog audio signal

Ⅰ Description

XIO 9030HDDEM-4AUD is a de-embed module of converting digital video signal to analog audio signal which based on the newly XIO video & audio processing platform with high performance. The modular platform can be used to various processes, such as convert, display and distribution of 3G, SD/HD.

XIO 9030HDDEM-4AUD is a de-embed module, which can de-embed one HD/SD video signal to 4 analog balanced audio signals. There are two HD/SD signals after amplified. The LED indicator shows signal information directly. The amplifier can be used together with XIO NET of managing network because of its inner setting SNMP protocol, it is also dedicated in real-time communication with third party monitoring via Ethernet to enable operator get working status easily.

Ⅱ XIO 9030HDDEM-4AUD Input& output

Input: 1 channel HD/SD-SDI, self-adaptive of HD/SD

Output: 2 channels HD/SD-SDI

4 channels balanced analog audio

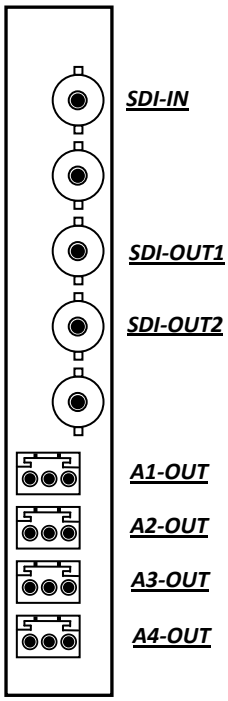
XIO 9030HDDEM-4AUD support the following formats:

SD：525i60、625i50

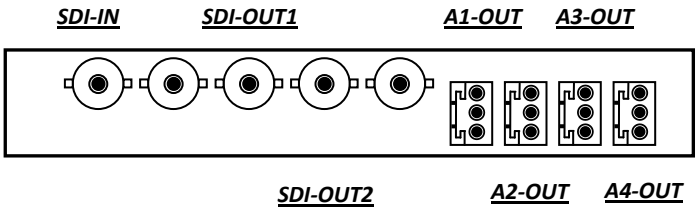
HD：720p60、720p59.94、720p50、1080i60、1080i59.94、1080i50、1080p30、1080p29.97、1080p25、1080p24、1080psf24

Ⅲ XIO 9030HDDEM-4AUD rear panel

3.1 XIO 9030HDDEM-4AUD 3U rear panel diagram

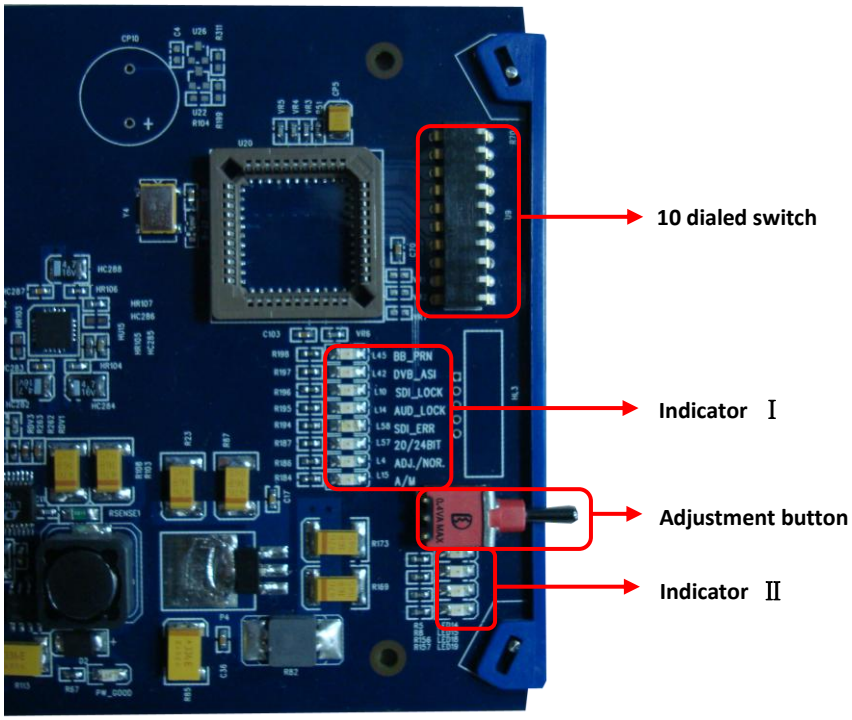


3.2 XIO 9030HDDEM-4AUD 1U rear panel diagram



Remarks: A1-OUT is the left channel of channel A; A2-OUT is the right channel of channel A; A3-OUT is the left channel of channel B; A4-OUT is the right channel of channel B.

Ⅳ XIO 9030HDDEM-4AUD detailed description



4.1 Indicator Ⅰ

Name	Color	Meaning
BB_PRN	--	
DVB_ASI	--	
SDI_LOCK	Green	On: the access of digital signal is normal Off: the access of digital signal is abnormal
AUD_LOCK	Green	On: the embedded audio works normal Off: the embedded audio works abnormal
SDI_ERR	Red	On: Input SD-SDI signal Off: Input HD-SDI signal
20/24BIT	Green	On: the outputted SDI locked Off: the outputted SDI unlocked

ADJ./NOR.	**Green**	On: the tenth dialed switch is on “ON”(Adjustment status) Off: the tenth dialed switch is on “OFF”(Working status)
A/M	**Green**	On: the first dialed switch is on “ON”(Auto status) Off: the first dialed switch is on “OFF”(Manually status)

4.2 Indicator Ⅱ

Name	Color	Meaning
LED14	**Green**	On: 1; Off: 0
LED15	**Green**	On: 2; Off: 0
LED18	**Green**	On: 4; Off: 0
LED19	**Green**	On: 8; Off: 0

This indicator sequence is used to indicate the current module in the specific slots. It displays up to 16 slots by the combination of the “ON” and “OFF”.

4.3 10 dialed switch and adjustment/select button：

To accomplish every function by apply the combination of these two switches.
10 is a dialed switch: To choose different function by set the various combination of “ON” &“OFF”. Press-“ON”, Up-“OFF”

Adjustment/select: makes sure the setting is done by click the switch upward or downward. Click upward for continuous settings, click downward clicked for single-step settings.

4.4 XIO 9030HDDEM-4AUD function setting:

序号	DIP Switch:	1	2	3	4	5	6	7	8	9	10
1	**De-embed audio from group 1**	M/A	OFF	ON	OFF	OFF	OFF	+/-			Adj/Normal
2	**De-embed audio from group 2**	M/A	OFF	ON	OFF	OFF	ON	+/-			Adj/Normal
3	**De-embed audio from group 3**	M/A	OFF	ON	OFF	ON	OFF	+/-			Adj/Normal
4	**De-embed audio from group 4**	M/A	OFF	ON	OFF	ON	ON	+/-			Adj/Normal
5	**Original audio output of channel A**	M/A	OFF	ON	ON	OFF	OFF	+/-			Adj/Normal
6	**L/R channel interchange of channel A**	M/A	OFF	ON	ON	OFF	ON	+/-			Adj/Normal
7	**L channel output of channel A**	M/A	OFF	ON	ON	ON	ON	+/-			Adj/Normal
8	**R channel output of channel A**	M/A	OFF	ON	ON	ON	OFF	+/-			Adj/Normal
9	**Mixed output of channel A**	M/A	ON	OFF	OFF	OFF	OFF	+/-			Adj/Normal
10	**Right channel gain of channel A**	M/A	ON	OFF	ON	ON	OFF	+/-			Adj/Normal
11	**Left channel gain of channel A**	M/A	ON	OFF	ON	ON	ON	+/-			Adj/Normal
12	**Direct output of channel A**	M/A	ON	ON	OFF	ON	OFF	+/-			Adj/Normal
13	**Output after adj of channel A**	M/A	ON	ON	OFF	ON	ON	+/-			Adj/Normal
14	**Original output of channel B**	M/A	ON	OFF	OFF	OFF	ON	+/-			Adj/Normal
15	**L/R channel interchange of channel B**	M/A	ON	OFF	OFF	ON	OFF	+/-			Adj/Normal
16	**Left channel output of channel** B	M/A	ON	OFF	ON	OFF	OFF	+/-			Adj/Normal
17	**Right channel output of channel B**	M/A	ON	OFF	OFF	ON	ON	+/-			Adj/Normal
18	**Mixed output of channel B**	M/A	ON	OFF	ON	OFF	ON	+/-			Adj/Normal
19	**Right channel gain of channel B**	M/A	ON	ON	OFF	OFF	OFF	+/-			Adj/Normal
20	**Left channel gain of channel B**	M/A	ON	ON	OFF	OFF	ON	+/-			Adj/Normal
21	**Direct output of channel B**	M/A	ON	ON	ON	OFF	OFF	+/-			Adj/Normal
22	**Output after adj of channel B**	M/A	ON	ON	ON	OFF	ON	+/-			Adj/Normal
23	**Save parameters**	M/A	ON	ON	ON	ON	OFF	+/-			Adj/Normal
24	**Access to users' parameters**	M/A	ON	ON	ON	ON	ON	+/-			Adj/Normal
25	**Set the serial number in auto mode**	ON	X	X	X	X	OFF	OFF			Adj/Normal
26	**Initial setting**	ON	X	X	X	X	ON	OFF			Adj/Normal

Remarks: ⅰ Set the “Bit 1” at “ON”, Bit 0（10）at ”Off”, at the external network automatic management mode（Parameters can be adjusted by network control）;

ⅱ Set the Bit 10 at “ON”, the module at adjustment mode;

ⅲ Set Bit 10 at “OFF” when it is working, or the signal stability will be influenced.

ⅳ If users need to adjust the gain of any audio channel, please choose “channel* output after the adjustment” mode. Otherwise, it will be useless.

ⅴ The interchange of left and right audio channel is just the change of original audio without the gain.

Ⅴ XIO 9030HDDEM-4AUD web control

XIO 9030HDDEM-4AUD can be used together with XIO NET of managing network because of its inner setting SNMP protocol, it is also dedicated in real-time communication with third party monitoring via Ethernet to enable operator get working status easily.

Ⅵ XIO 9030HDDEM-4AUD Technical specification

Digital video input:

Input interface:	1*SDI, BNC connection
Impedance:	75Ω
Format:	SMPTE 259M-C; 270Mb/s
	HD: SMPTE 292M; 1.485Gb/s
	Self-adaptive of following formats: SD: 525i60、625i50 HD: 720p60、720p59.94、720p50、1080i60、1080i59.94、1080i50、1080p30、1080p29.97、1080p25、1080p24、1080psf24
Return loss:	> 15dB, 5MHz to1.5GHz
Max cable length:	SD: < 200m (Belden 1694A)
	HD: < 100m (Belden 1694A)

Digital video output：

Output interface:	2*HD/SD-SDI, BNC connection
Impedance:	75Ω
Format:	SD: SMPTE 259M-C; 270Mb/s
	HD: SMPTE 292M; 1.485Gb/s
Return loss:	> 15dB, 5MHz to1.5GHz
signal amplitude:	800mV±10%
Overshoot:	< 80mV
Jitter:	< 135ps (100KHz)
Risen and fallen time:	< 270ps
Differential of risen and fallen time:	< 100ps
Dc level displacement:	0V±500mV

Analog audio output:

Output interface:	4*3pin, balanced audio
Impedance:	600Ω

Max input level:	+24dBu (0dbFS)
Amplitude frequency:	<±0.04dB @ 20Hz to 20KHz
SNR:	>80dB
THD+N：	-90dB @ 1KHz

Ⅶ Contact Us

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